

NITROGEN-CO₂ FLOODING

Nitrogen-CO₂ flooding is actually a variation of CO₂ flooding that is applied to reduce the cost of using CO₂, which must be brought in by pipeline or tank truck, a relatively expensive operation. Because nitrogen can be manufactured on site at a greatly reduced cost, it is an attractive alternative. Nitrogen can be extracted from air by cryogenic separation, the source is unlimited, and it is an inert, noncorrosive gas. In applying the process, nitrogen is injected into the reservoir to displace the CO₂ slug and its associated oil bank.

NITROGEN — CO₂ FLOODING

In a CO₂ flood, the use of nitrogen to displace the CO₂ slug and its miscible oil bank might be desirable due to the lower cost of the nitrogen.

Viscosity of oil is reduced providing more efficient miscible displacement.

